ÖLFLEX® VFD SLIM
Reduced-diameter VFD cable; 600V/1000V; UL & c(UL) TC-ER approval

ÖLFLEX® VFD SLIM is a reduced-diameter shielded motor cable for VFD drives. It is designed with the LAPP Surge Guard insulation system, which includes a semiconductive layer made to withstand nonlinear power distortions associated with VFD drives and to disperse increases in voltage caused by wave reflection, spikes, in-rush current, and harmonics. It is resistant to a wide range of disinfecting solutions used in the food, beverage, chemical and related industries.

# Construction
- Conductors: finely stranded tinned copper
- Insulation: LAPP Surge Guard insulation system
- Shielding: barrier tape; triple layer foil tape (100% coverage); tinned copper braid (85% coverage)
- Jacket: specially formulated thermoplastic polymer; black

# Application Advantage
- LAPP Surge Guard insulation protection
- UL TC-ER & c(UL) CIC/TC approved
- Double shielded for extra protection
- Resistant to a wide range of disinfecting solutions used in the food, beverage, chemical and related industries, according to ECOLAB® PM 40-1 test procedure

# Recommended applications
VFD drive and motor applications; web presses; HVAC; conveyors; on/off, slow down/speed up applications

# Approvals
UL: TC-ER per UL 1277
MTW per UL 1063
WTTC per UL 2277
AWM 20886

Attributes: UL Oil Res I/II
75°C wet; 90°C dry
-40°C cold bend; -25°C cold impact
Sunlight resistant
Submersible pump (14 AWG & larger)
Direct burial
NFPA 79

NEC: Class 1 Division 2 per NEC Article 501
Canada: c(UL) CIC/TC FT4
CSA AWM I/II A/B 1000V FT4

Additional: MSHA P-07KA050013-MSHA
CE & RoHS

# Technical data
- Minimum bend radius: 7.5 x cable diameter
- Temperature range:
  - UL/CSC TC: -25°C to +90°C
  - for stationary use: -40°C to +105°C
  - for flexible use: -25°C to +105°C
- Nominal voltage:
  - UL/CSC TC: 600V
  - UL WTTC: 1000V
  - UL Flexible Motor Supply: 1000V
  - UL/CSC AWM: 1000V
- Test voltage: 2000V
- Peak voltage: 7500V
- Conductor stranding:
  - 18-6 AWG: Class 5 fine wire*
  - 4-2 AWG: Class K fine wire
  - 18 AWG meets only Class 5 cross section and DC resistance

<table>
<thead>
<tr>
<th>Part number</th>
<th>Number of conductors incl. ground</th>
<th>Nominal outer diameter in mm</th>
<th>Copper weight lbs/ft</th>
<th>Approx. weight lbs/ft</th>
<th>SKINTOP® MS-SC PG thread</th>
<th>SKINTOP® MS-M BRUSH metric thread</th>
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<tbody>
<tr>
<td>18 AWG (1 mm²)</td>
<td>4</td>
<td>0.394</td>
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<td>16 AWG (1.5 mm²)</td>
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<td>14 AWG (2.5 mm²)</td>
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<td>13.1</td>
<td>100</td>
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<td>17.7</td>
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<td>346</td>
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*Recommended SKINTOP® assumes minimal OD variance. Additional configurations are available; please see our SKINTOP® section.

if not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

for current information see: www.lappusa.com • www.lappcanada.com